

**SCHEMATIC DIAGRAMS
MOD.**

RODEO 32

ELECTRONIC ORGAN

MANUFACTURED BY:

G.E.M. s.p.a. - ELECTRONIC MUSICAL INSTRUMENTS

MONDAINO · FO · ITALY

The schematic diagram illustrates the internal circuitry of a portable electronic music instrument. It is divided into three main functional blocks: AC Input, Audio Amplification, and Power Supply.

- AC Input Section:** An AC LINE input is connected to a transformer (T 050/A) with primary taps at 220 and 240V. The secondary is connected to a bridge rectifier (0101-4 1N4002). A 0.1 AMP fuse is present in the line. The rectified output is connected to a 76M12 IC 102, which is also connected to a 2000 μF capacitor (C112) and a 50 μF capacitor (C113).
- Audio Amplification Section:** The core of this section is IC 101 (TDA 1004). The input signal, labeled "FROM FILTER", enters at pin 3 through a 100 nF capacitor (C101) and a 4K7 resistor (R101). Pin 11 is connected to a 15 nF capacitor (C103) to ground. Pin 9 is connected to a 100 μF capacitor (C104) to ground. Pin 12 is connected to a 470 μF capacitor (C105) to ground. Pin 14 is connected to a 4 nF capacitor (C106) to ground. Pin 16 is connected to a 100 nF capacitor (C109) to ground. Pin 7 is connected to a 3 nF capacitor (C110) to ground. Pin 5 is connected to a 100 nF capacitor (C107) to ground. Pin 4 is connected to a 220 pF capacitor (C108) to ground. Pin 1 is connected to ground. Pin 10 is connected to a 100 nF capacitor (C102) to ground. The output of the amplifier is connected to an earphone and a 4 OHM speaker.
- Power Supply Section:** A battery (24.368V) is connected to the circuit. A 76120 component is also present, likely a voltage regulator or a specific type of battery pack.

1) ALL RESISTORS 1/4 WATT UNLESS OTHERWISE SPECIFIED.
2) ALL VOLTAGES MEASURED WITH RESPECT GND, WITHOUT SIGNAL.

REV.	SUBJECT			DATE	CHKD
ISSUED	DATE	BY	USED ON:	<div style="border: 2px solid black; padding: 5px; text-align: center;"><div style="font-size: 2em; font-weight: bold; margin: 0;">DDR</div><div style="font-weight: bold; margin: 0;">REPAIRING (FO)</div></div>	
DRAWN	73-1277	Yakobson			
CHKD	25-1-94	Yakobson			
PRP	25-1-76	Ulanov			
N. SO - 12 48			SCHEMATIC DIAGRAM: POWER AMPLIFIER AND VOLTAGE REGULATOR		
REPLACED BY					
REPLACING					

FROM PWR
AMP
+12
A5

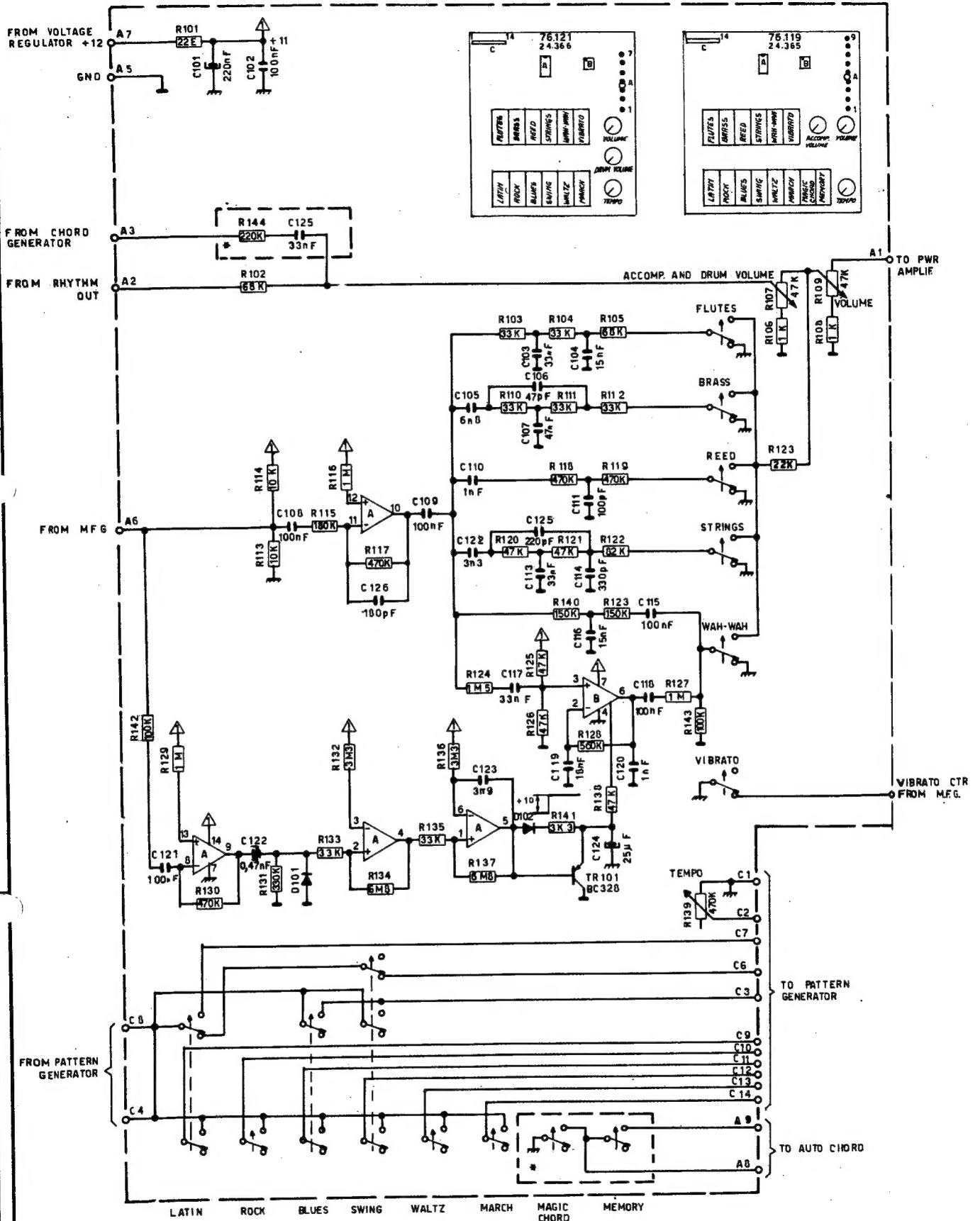
POWER GND
A2



- 1) IC A-8-C-D = IC 101-2-3-4 = HBF 4727 = +VCC pin 7 - GND pin 1
- 2) IC E = IC 105 = 50241 = +VCC pin 1 - GND pin 3
- 3) IC F = IC 106 = 4001 = +VCC pin 14 - GND pin 7
- 4) ALL RESISTORS 1.4 WATT UNLESS OTHERWISE SPECIFIED.
- 5) ALL VOLTAGES MEASURED WITH RESPECT GND.
- 6) * ONLY MODEL ROUTED 49.

REV.	DATE	BY	USED ON:	DATE	CNO
ISSUED	12/22/77	10444	RODDE 37/49		
DRAWING	56-141				
CNO	75-118-1404				
ATTN					
W. 50-1249			SCHMATIC DIAGRAM: MASTER FREQUENCY GENERATOR.		
REPLACED BY			DDR NONSHARP (FO)		
REPLACING					

FILTER & TRIGGER 76.121 - 76.119

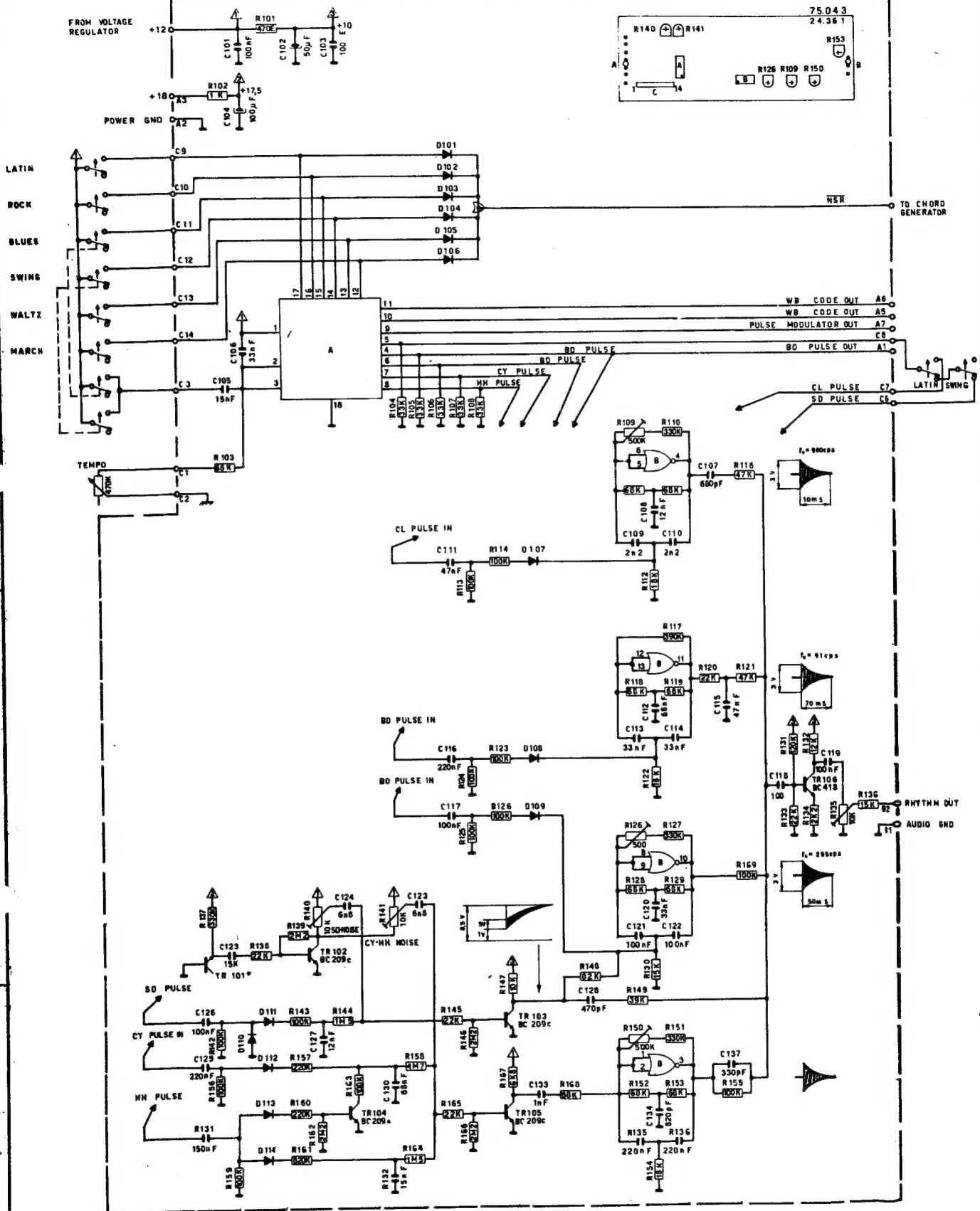


- NOTES :
- 1) IC A = IC 101 = LM 3900
 - 2) IC B = IC 102 = CA 3080
 - 3) ALL RESISTORS 1/4 WATT UNLESS OTHERWISE SPECIFIED
 - 4) ALL DIODES FDM 999 UNLESS OTHERWISE SPECIFIED
 - 5) ALL VOLTAGES MEASURED WITH RESPECT GND
 - 6) * ONLY MODEL RODEO 49

REV.	DATE	BY	SUBJECT	DATE	CHKD
ISSUED			USED ON:		
DRAWN	10/27/77	RAH	RODEO 37/49		
CHKD	25/1/78	Y.B.			
REVISED	25/1/78	Y.B.			
N° 50 - 1250			SCHEMATIC DIAGRAM:		
REPLACED BY			FILTER AND TRIGGER		
REPLACING					

DDR
MONDINO (FO)

PATTERN GENERATOR & VOICING BOARD 75.043



NOTES

- 1) IC A = IC 101 = AY-5-1315 - +12 pin 1 - GND pin 18
- 2) IC B = IC 102 = 4001 - +10 pin 4 - GND pin 7
- 3) TR 101 - BLUE DOT - FACTORY SELECTED CN 09.401
- 4) ALL RESISTORS 1/4 WATT UNLESS OTHERWISE SPECIFIED.
- 5) ALL DIODES FOR 900 (OR EQUIVALENT) UNLESS OTHERWISE SPECIFIED.
- 6) ALL VOLTAGES MEASURED WITH RESPECT GND.

REV	SUBJECT	DATE	CKD
ISSUED	DATE	BY	
DRAWN	14-10-77	724	
CKD	25-1-78		
APPROV	2-7-78		
N: 50-1252			
REPLACED BY			
REPLACING			
SCHEMATIC DIAGRAM: PATTERN GENERATOR AND VOICING BOARD.			

